

PATENT COOPERATION TREATY

PCT
NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

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11-6-01

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YAMANOUCHI
PAT DEPT

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Date of mailing (day/month/year) 01 June 2001 (01.06.01)	
Applicant's or agent's file reference Y9914-PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP99/07236	International filing date (day/month/year) 22 December 1999 (22.12.99)
Applicant YAMANOUCHI PHARMACEUTICAL CO., LTD. et al	

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,AT,AU,CA,CH,CN,CZ,FI,KP,NO,NZ,PL,RO,RU,SK,US


The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,AE,AL,AM,AZ,BA,BB,BG,BR,BY,CR,CU,DE,DK,DM,EE,ES,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,PT,SD,SE,SG,SI,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW,OA

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer <div style="text-align: center;">Eliott Peretti</div> <div style="text-align: right;"></div> Telephone No. (41-22) 338.83.38
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Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Y9914-PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP99/07236	International filing date (<i>day/month/year</i>) 22 December 1999 (22.12.99)	Priority date (<i>day/month/year</i>) 25 December 1998 (25.12.98)
International Patent Classification (IPC) or national classification and IPC A61K 31/675, 45/00, A61P 19/08, 35/00		
Applicant YAMANOUCHI PHARMACEUTICAL CO., LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 27 April 2000 (27.04.00)	Date of completion of this report 30 January 2001 (30.01.2001)
Name and mailing address of the IPEA/JP Facsimile No.	Authorized officer Telephone No.

I. Basis of the report

1. With regard to the elements of the international application:*

- the international application as originally filed
- the description:
 - pages _____, as originally filed
 - pages _____, filed with the demand
 - pages _____, filed with the letter of _____
- the claims:
 - pages _____, as originally filed
 - pages _____, as amended (together with any statement under Article 19
 - pages _____, filed with the demand
 - pages _____, filed with the letter of _____
- the drawings:
 - pages _____, as originally filed
 - pages _____, filed with the demand
 - pages _____, filed with the letter of _____
- the sequence listing part of the description:
 - pages _____, as originally filed
 - pages _____, filed with the demand
 - pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

- These elements were available or furnished to this Authority in the following language _____ which is:
- the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
 - the language of publication of the international application (under Rule 48.3(b)).
 - the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages _____
- the claims, Nos. _____
- the drawings, sheets/fig _____

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP99/07236

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- the entire international application.
- claims Nos. 7

because:

- the said international application, or the said claims Nos. 7 relate to the following subject matter which does not require an international preliminary examination (*specify*):

The subject matter of Claim 7 relates to a method for treatment of the human body by therapy, which does not require an international preliminary examination by the International Preliminary Examining Authority in accordance with PCT Article 34(4)(a)(i) and Rule 67.1(iv).

- the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____ are so unclear that no meaningful opinion could be formed (*specify*):

- the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed.

- no international search report has been established for said claims Nos. 7

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

- the written form has not been furnished or does not comply with the standard.
- the computer readable form has not been furnished or does not comply with the standard.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP99/07236

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-6,8	YES
	Claims		NO
Inventive step (IS)	Claims	1-6,8	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-6,8	YES
	Claims		NO

2. Citations and explanations

Documents

Document 1: JP, 2-138288, A (Yamanouchi Pharmaceutical Co., Ltd.) 4 February 1999 (04.02.99)

Document 2: WO, 95/28936, A (Merck & Company, Inc.) 2 November 1995 (02.11.95)

Commentary

Document 1 states that 1-hydroxy-2-(imidazo [1,2-a] pyridin-3-yl) ethane-1,1,-bisphosphonic acid and salts thereof have the effect of inhibiting bone resorption and suppress hypercalcemia, which is the cause of bone resorption, but it does not describe the action of these compounds on multiple myeloma. Document 2 states that bisphosphonate, which is known as an agent that inhibits bone resorption, suppresses the resorption of bone after the transplantation of prosthetic materials, and its states that multiple myeloma is one of the causes of the disappearance of bone surrounding prosthetic materials, but it does not state that these compounds inhibit bone resorption caused by multiple myeloma or slow the progression of multiple myeloma itself. Therefore, the inventions set forth in Claims 1-6 and 8 are not disclosed in the above documents and appear to be novel. Furthermore, persons skilled in the art cannot easily conceive of selecting a constituent that acts not only to inhibit bone resorption accompanying multiple myeloma but also inhibits multiple myeloma itself.